Multi-Flow is manufactured from high density polyethylene, and factory wrapped in a needle-punched polypropylene filter fabric. It is available in 3 sizes, 6”, 12”, and 18”, and comes standard in 150’ lengths. Rolls have a 55” diameter. Multi-Flow is many times stronger than conventional round drainage pipes, and has much more surface area for the collection of water. When used as a replacement for a French drain, Multi-Flow is typically installed in a 4” wide trench, and back-filled with clean coarse sand. The combination of the high quality drain core and sand based installation method results in a complete drain system that outperforms and outlasts any other.

Multi-Flow end caps (06001, 12001, and 18001) prevent infiltration of soil, and are used to close either (or both) end(s) of the drainage lines. Basic couplers (06002, 12002, and 18002), like all Multi-Flow connectors, simply snap over the drainage core, and allow for the connection of multiple lengths of drain line. Multi-Flow offers a variety of multi-purpose reducing connectors (06005 - 0600N, 12005 - 1200Q, and 18005 - 1800Q) that allow for complete flexibility in the design of drainage patterns. These connectors can even be stacked on each other when using multiple lifts of Multi-Flow in a single trench.

Sand Filter

Fabric Filter
Any multi-purpose connector can be converted to an inspection port by installing a PVC adapter and plug. In many cases, a 3" PVC extension is added to bring the port to the surface.

Side outlets (6003, 12003, and 18003) provide a simple way to connect a Multi-Flow system to round pipe exiting at a 90-degree angle. Typical uses include roadway, runway, or other applications that demand long runs of drainage system with frequent discharge locations.

Any multi-purpose connector can be field converted to discharge from the bottom into 3" PVC pipe or other conduits.

Short to intermediate lengths of drain line can be discharged into round pipes with the use of a Multi-Flow end outlet. (06004, 12004, and 18004)

Single-sided multi-purpose outlets (0600M, 1200M, and 1800M) provide a simple way to connect horizontally installed Multi-Flow to a transport system. A multi-purpose coupler (06009, 12009, or 18009) could be used in the same way to transfer water collected from two sides. Typical horizontal installations include synthetic turf, under pavers, and anywhere involving vertical limitations.
<table>
<thead>
<tr>
<th>Endcap</th>
<th>Coupler</th>
<th>Side Outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>#06001 Closes off an end of a 6” Multi-Flow drainage line</td>
<td>#06002 Couples two sections of 6” Multi-Flow</td>
<td>#06003 Couples two lines of Multi-Flow and outlets at 90° into a 3” pipe</td>
</tr>
<tr>
<td>#12001 Closes off an end of a 12” Multi-Flow drainage line</td>
<td>#12002 Couples two sections of 12” Multi-Flow</td>
<td>#12003 Couples two lines of Multi-Flow and outlets at 90° into a 4” pipe</td>
</tr>
<tr>
<td>#18001 Closes off an end of an 18” Multi-Flow drainage line</td>
<td>#18002 Couples two sections of 18” Multi-Flow</td>
<td>#18003 Couples two lines of Multi-Flow and outlets at 90° into a 4” pipe</td>
</tr>
</tbody>
</table>
End Outlet

#06004 Terminates a line of 6” Multi-Flow, outletting it into a 3” pipe

#12004 Terminates a line of 12” Multi-Flow, outletting it into a 4” pipe

#18004 Terminates a line of 18” Multi-Flow, outletting it into a 4” pipe

Multi-Purpose Connectors

All of the multi-purpose connectors can be used as outlets. Inspection ports can also be attached to any multi-purpose connector. 3-inch PVC or ABS fittings (tees, wyes, reducers, etc) can be connected by simply removing the cap on either end. Varicore stocks a limited number of these components. These can be seen on page 11.

Wye

#06005 6” to 6” with a 6” at 45° to the left or right

#12005 12” to 12” with a 12” at 45° to the left or right

#18005 18” to 18” with an 18” at 45° to the left or right

Basic Connectors

The end outlet and side outlet make it possible to install the transport system at the same depth as the bottom of the collector system. Simply cut open the flange membrane to the desired size with a utility knife and insert the transport pipe.
Double Wye

#06006 6" to 6" with a 6" at 45° to the right, and a 6" at 45° to the left

#12006 12" to 12" with a 12" at 45° to the right, and a 12" at 45° to the left

#18006 18" to 18" with an 18" at 45° to the right, and an 18" at 45° to the left

Tee

#06007 6" to 6" with a 6" at 90° to the left or right

#12007 12" to 12" with a 12" at 90° to the left or right

#18007 18" to 18" with an 18" at 90° to the left or right

Cross

#06008 6" to 6" with a 6" at 90° to the right, and a 6" at 90° to the left

#12008 12" to 12" with a 12" at 90° to the right, and a 12" at 90° to the left

#18008 18" to 18" with an 18" at 90° to the right, and an 18" at 90° to the left
**Coupler**

- **#06009** 6” to 6” Used to couple two 6” lines when a bottom outlet is desired
- **#12009** 12” to 12” Used to couple two 12” lines when a bottom outlet is desired
- **#18009** 18” to 18” Used to couple two 18” lines when a bottom outlet is desired

**Single-sided**

- **#0600M** 6” from one side only. Used to outlet a 6” line from the bottom vertically or from the side horizontally.
- **#1200M** 12” from one side only. Used to outlet a 12” line from the bottom vertically or from the side horizontally.
- **#1800M** 18” from one side only. Used to outlet an 18” line from the bottom vertically or from the side horizontally.

**90°**

- **#0600N** 6” to 6” at a 90° to the right or left. Used when a bottom outlet is desired
- **#1200N** 12” to 12” at a 90° to the right or left. Used when a bottom outlet is desired
- **#1800N** 18” to 18” at a 90° to the left or right. Used when a bottom outlet is desired

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Double Wye

#1200A 12” to 6” with a 6” at 45° to the right, and a 6” at 45° to the left

#1800A 18” to 6” with a 6” at 45° to the right, and a 6” at 45° to the left

#1800G 18” to 12” with a 12” at 45° to the right, and a 12” at 45° to the left

Wye Left

#1200B 12” to 6” with a 6” at 45° to the left

#1800B 18” to 6” with a 6” at 45° to the left

#1800E 18” to 12” with a 12” at 45° to the left

Wye Right

#1200C 12” to 6” with a 6” at 45° to the right

#1800C 18” to 6” with a 6” at 45° to the right

#1800F 18” to 12” with a 12” at 45° to the right

Contact information:

(800) 978 8007

www.varicore.com
Step Down

#1200D 12” to 6” reducing coupling

#1800D 18” to 6” reducing coupling

#1800H 18” to 12” reducing coupling

Tee

#1200E 12” to 12” with a 6” at 90° to the right or left

#1800I 18” to 18” with a 6” at 90° to the right or left

#1800J 18” to 18” with a 12” at 90° to the right or left

Double Wye

#1800K 18” to 18” with a 6” at 45° to the right, and a 6” at 45° to the left

#1800K 18” to 18” with a 12” at 45° to the right, and a 12” at 45° to the left

#1800L 18” to 18” with a 12” at 45° to the right, and a 12” at 45° to the left

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<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Part Number</th>
<th>Part Number</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wye Left</strong></td>
<td>Connects 6&quot; to 6&quot; with two additional lines of 6&quot; at 45° to the left. Includes an optional bottom outlet into a 4&quot; PVC pipe</td>
<td>#1200P</td>
<td>#1200Q</td>
<td>#1800P</td>
</tr>
<tr>
<td><strong>Wye Right</strong></td>
<td>Connects 6&quot; to 6&quot; with two additional lines of 6&quot; at 45° to the right. Includes an optional bottom outlet into a 4&quot; PVC pipe</td>
<td>#1200Q</td>
<td>#1200Q</td>
<td>#1800Q</td>
</tr>
<tr>
<td><strong>Horizontal Connectors</strong></td>
<td>Connects 6&quot; to 6&quot; with two additional lines of 6&quot; at 45° to the right or the left. Includes an optional bottom outlet into a 4&quot; PVC pipe</td>
<td>#1201N</td>
<td>#1201N</td>
<td>#1802P</td>
</tr>
<tr>
<td><strong>Tee -- 12-inch</strong></td>
<td>Connects 12&quot; to 12&quot; with an additional lines of 12&quot; at 90° to the right or the left</td>
<td>#12017</td>
<td>#12017</td>
<td>#1803Q</td>
</tr>
<tr>
<td><strong>Cross -- 12-inch</strong></td>
<td>Connects 12&quot; to 12&quot; with two additional lines of 12&quot; at 90° to the right and left. Includes an optional bottom outlet into a 4&quot; PVC pipe</td>
<td>#12018</td>
<td>#12018</td>
<td>#1804P</td>
</tr>
</tbody>
</table>

**Double Wye -- 6-inch**

#06016 Connects 6" to 6" with two additional lines of 6" at 45° to the right and left. Includes an optional bottom outlet into a 4" PVC pipe

**Cross -- 6-inch**

#06018 Connects 6" to 6" with two additional lines of 6" at 90° to the right and left. Includes an optional bottom outlet into a 4" PVC pipe

Photos of the 6-inch horizontal fittings are shown from what is normally used as the bottom side of the fitting, in order to display the outlet membrane. The 12-inch horizontal fittings are connectors only and do not include the outlet option.
## Transport Pipe Connectors

- **#08RTP Rigi-Tap**
  Connection to 8" rigid pipe

- **#10RTP Rigi-Tap**
  Connection to 10" rigid pipe

- **#00CTV Corru-Tap**
  Connection from vertical Multi-Flow to corrugated pipe

- **#06CTH Corru-Tap**
  Connection from 6" horizontal Multi-Flow to corrugated pipe

- **#12CTH Corru-Tap**
  Connection from 12" horizontal Multi-Flow to corrugated pipe

## Miscellaneous Components

- **#ABS001 3" Female Adapter with Cleanout Plug**

- **#ABS002 3" 45° Elbow**

- **#ABS003 3" 90° Elbow**

- **#ABS004 3" to 4" Bushing**

- **#ABS005 3" to 3" Coupler**

- **#ABS006 3" to 4" 90° Elbow**

- **#ABS007 4" to 4" with 3" at 90°**

- **#ABS008 3" to 3" with 3" at 90°**

- **#ABS009 3" to 4" Reducer**

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## Multi-Flow Technical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow Rate, gpm/ft**</td>
<td>ASTM D-4716</td>
<td>29*</td>
</tr>
<tr>
<td>Compressive Strength, psf (sand method)</td>
<td>ASTM D-1621</td>
<td>6000</td>
</tr>
<tr>
<td>Thickness, inches</td>
<td>ASTM D-1777</td>
<td>1.0</td>
</tr>
<tr>
<td>Perforations/sq ft</td>
<td></td>
<td>&gt;300</td>
</tr>
<tr>
<td><strong>Geotextile</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (oz/yd²)</td>
<td>ASTM D-3776</td>
<td>4.0</td>
</tr>
<tr>
<td>Tensile Strength, lb.</td>
<td>ASTM D-4632</td>
<td>100</td>
</tr>
<tr>
<td>Elongation, %</td>
<td>ASTM D-4632</td>
<td>50</td>
</tr>
<tr>
<td>Puncture, lb.</td>
<td>ASTM D-4833</td>
<td>50</td>
</tr>
<tr>
<td>Mullen Burst, psi</td>
<td>ASTM D-3786</td>
<td>200</td>
</tr>
<tr>
<td>Trapezoidal Tear, lb.</td>
<td>ASTM D-4533</td>
<td>42</td>
</tr>
<tr>
<td>Coefficient of Perm, cm/sec.</td>
<td>ASTM D-4491</td>
<td>0.1</td>
</tr>
<tr>
<td>Flow Rate, gpm/ft²</td>
<td>ASTM D-4491</td>
<td>100</td>
</tr>
<tr>
<td>Permittivity, 1/sec.</td>
<td>ASTM D-4491</td>
<td>1.8</td>
</tr>
<tr>
<td>A.O.S. Max US Std Sieve</td>
<td>ASTM D-4751</td>
<td>70</td>
</tr>
<tr>
<td>UV Stability, 500 hrs., %</td>
<td>ASTM D-4355</td>
<td>70</td>
</tr>
<tr>
<td>Seam Strength, lb./ft.</td>
<td>ASTM D-4595</td>
<td>100</td>
</tr>
<tr>
<td>Fungus</td>
<td>ASTM G-21</td>
<td>No Growth</td>
</tr>
</tbody>
</table>

Values represent minimum average roll values.
* Horizontal installation.
** At gradient = 0.1, compressive force = 10psi for 100 hours.

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Multi-Flow is available in three sizes: 6 inch, 12 inch, and 18 inch. Standard 150-foot lengths are shipped in fifty-five inch diameter rolls.

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